

IP DUAL SENSOR THERMAL PTZ CAMERA



ENC-HHP7Z-80X-37

FEATURES

400x300 Uncooled VOx Micro Bolometer Detector

Sensitivity $\leq 40\text{mK}$

30 ~ 150 mm Motorized Focus Thermal Lens

Areas / Spot / Line Temperature Measurement Rule Support

17 Color Patterns Support

IP67



SPECIFICATION

MODEL	Model No.	ENC-HHP7Z-80X-37
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
THERMAL CAMERA	Detector Type	Uncooled VOx Focal Plane Arrays
	Effective Pixels	400x300 and Image can be scaled up to 704x576
	Pixel Size	17um
	Thermal Sensitivity (NETD)	$\leq 40\text{ mK}$
	Spectral Range	8~14um
	Image Settings	Brightness, Sharpness, Contrast, Mirror, 3D DNR, Mirror / Flip, FFC
	Color Palettes	White & Black Hot, Ironbow, Rainbow etc. up to 17 modes
THERMAL LENS	Iris	Fixed IRIS
	Lens	Motorized
	Focus Control	Motorized Focus
	Digital Zoom	16x
	Focal Length	30~150 mm
	F No	F1.2
	Angle of View	13.0°~2.6°(H), 10.0°~2.0°(V), 16.4°~ 3.2°(D)
	Detection	30 ~ 150 mm : Human (1.8m×0.5m) - 881 ~ 4406 m, Vehicle (4.0m×1.5m) - 2706 ~ 13529 m
	Recognition	30 ~ 150 mm : Human (1.8m×0.5m) - 220 ~ 1101 m, Vehicle (4.0m×1.5m) - 676 ~ 3382 m
	Identification	30 ~ 150 mm : Human (1.8m×0.5m) - 110 ~ 551 m, Vehicle (4.0m×1.5m) - 338 ~ 1691 m
Fire Detection	30 ~ 150 mm : Fire (0.2m×0.2m) - 176 ~ 882 m, Fire (1.0m×1.0m) - 882 ~ 4412 m	

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VISIBLE CAMERA	Image Sensor	1/1.8" Sony CMOS
	Max Resolution	2560x1440
	Focal Length	10 ~ 800 mm (Optional 10 ~ 860 mm)
	Focus Control	Auto / Semi Auto / Manual
	Angle of View(H)	38.4° ~ 0.50° (Optional 38.4° ~ 0.48°)
	Angle of View(V)	21.6° ~ 0.29° (Optional 21.6° ~ 0.27°)
	Angle of View(D)	44.0° ~ 0.57° (Optional 44.0° ~ 0.55°)
	Max Aperture	F2.1 ~ F11.2
	Optical Zoom	80x (Optional 86x)
	Digital Zoom	16x
	Electronic Shutter	1s ~ 1/100,000s, Auto/Manual
	Defog	Optical Defog
	Min. illumination	Color:0.001 lux @ F2.1, B/W:0.0001 lux
	AGC	Auto/Manual
	S/N Ratio	≥55dB
	WDR	120dB
	Detection	10 ~ 800 mm: 137.9 ~ 11732.6 m 10 ~ 860 mm: 137.9 ~ 11862.0 m
Observation	10 ~ 800 mm: 55.1 ~ 4725.8 m 10 ~ 860 mm: 55.1 ~ 4744.8 m	
Recognition	10 ~ 800 mm: 27.5 ~ 2346.7 m 10 ~ 860 mm: 27.5 ~ 2372.4 m	
Identification	10 ~ 800 mm: 13.7 ~ 1173.6 m 10 ~ 860 mm: 13.7 ~ 1186.2 m	
VIDEO	Video Compression	Enhanced (H.265, H.264), H.265, H.264, MJPEG
	Frame Rate	Main Stream: Thermal: (704x576) @25/30fps; Visible: (2560x1440, 1920x1080, 1280x720) @25/30fps Sub Stream: Thermal: (352x288) @25/30fps; Visible: (704x576, 640x480, 352x288) @25/30fps Thired Stream: Visible: (704x576, 640x480, 352x288) @25/30fps
	Stream Settings	i-Frame, PAL/NTSC, Frame Rate
	Bit Rate	Thermal: 100 Kbps ~ 6 Mbps Visible: 100 Kbps ~ 16 Mbps
	Bit Rate Control	CBR, VBR
	Image Settings	Brightness, Contrast, Saturation, Sharpness, Day/Night (Color, Mono, Auto), Flip/Mirror/Rotation, Multiple Scene & Profile
	White Balance	Auto, Day/Night, Tungsten, Fluorescent, Shadow, Manual
	HLC	Supported
	BLC	Supported
	OSD	Up to 8 Regions
	OSD Type	Title, Week, Date, Time, Text with different colors and adaptable sizes (Small / Medium / Big), Image overlay
ROI	Up to 8 Regions	
Privacy Masking	Up to 4 Regions	
AUDIO	Audio Compression	G.711A, G.711U, RAW_PCM
	Audio Bitrate	64 kbps, 128 kbps
	Audio I/O	2/2
SMART	Behaviour Detection	Thermal/Visible: Intrusion (Perimeter), Crossline (Tripwire), Double Crossline (Double Tripwire)
	Intelligent Identification	Thermal: Region Entry / Exit Detection, Loitering, Flame Point Detection
	Statistical Analysis	Thermal: People Counting, Wrong Way Detection, Human and Vehicle Detection, Temperature Detection
	Alarm Management	Motion Detection, Tampering (Masking), Input & Output Event, Network Alarm, Temperature Alarm, Disk Alarm, Day Night Switch Alarm, Pre/Post Alarm Recording, Alarm Recording/Snapshot
Alarm Notification	E-mail (Notification & Snapshot), HTTP (Alarm icon), FTP (Snapshot & Recording), SD Card (Recording)	
TEMPERATURE	Detection Mode	Spot, Line, Area (Total 20 Rules - 1 Full Screen and 19 others)
	Alarm	Over/Difference Alarm
	Accuracy	±2°C / ±2%
	Response Time	≤ 30ms
	Measurement range	-20°C ~ 150°C (-4°F ~ 302°F)

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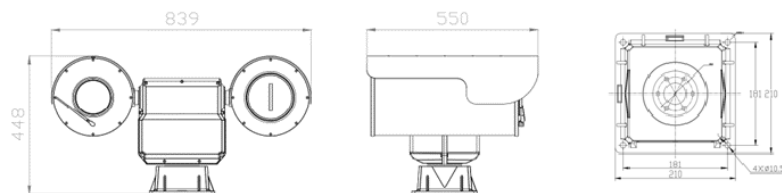
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MODEL	Model No.	ENC-HHP7Z-80X-37
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
INTERFACE	Protocols	TCP/IP, UDP, IPv4, IPv6, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP/RTCP, RTSP, PPPoE, NTP, UPnP, SMTP, SNTP, IGMP V2/V3, 802.1x, QoS, Unicast, Multicast, SNMP, ARP, SSL / TLS 1.2
	Security	AES 128/256 Encryption, IP Filter, User Authentication (Multiple Privilege Level), HTTPS Authentication, Digest Authentication, User Access Log
	Compatibility	ONVIF (Profile S, G, T, M), CGI/SDK
	Network	1x RJ45 10M/100M Self Adaptive Ethernet Port
	Alarm I/O	6/4
	Serial Interface	1xRS485
	BNC	Supported
	Edge Storage	Micro SD Card Slot, up to 512 GB
	ANR	Supported
	Heater	Supported
	Fan	Supported
	Remote Connection	≤10
	Max.User	32
	Web Language	15
Client Application	EyeGuard	
PAN AND TILT	Pan Range	0° ~ 360° (Endless)
	Pan Speed	Pan Manual Speed: 0.01° ~ 60°/s, Pan Preset Speed: 0.01° ~ 60°/s
	Tilt Range	-45° ~ +45°
	Tilt Speed	Tilt Manual Speed: 0.01° ~ 30° /s, Tilt Preset Speed: 0.01° ~30°/s
	Preset Accuracy	± 0.1°
	Number of Presets	400
	3D Position	Supported
	Power Off Memory	Supported
	PTZ Mode	8 Scan, 6 Track, 12 Patrols (32 Presets per Patrol)
	Speed Setup	Auto/Manual (0-8)
	Power Supply	48V DC
GENERAL	Max. Power consumption	≤300W
	Working Temperature	-40 °C ~ 70 °C
	Working Humidity	≤95% RH
	Casing	Metal
	Ingress Protection	IP67
	Vandal Resistant	IK10 (Housing)
	Surge Protection	TVS6000V
	Reset Button	Supported
	Dimensions	839 × 550 × 448 mm
	Net Weight	65Kg

Dimension Unit : mm



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ENC-HHP7Z-80X-37

ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-HHP7Z-80X-37 (With 10 ~ 800 mm Visible Lens)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 80X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card slot Support	1
ENC-HHP7Z-80X-37 (With 10 ~ 860 mm Visible Lens)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 86X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card slot Support	1

PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-HHP7Z-80X-37	Carton Box	-	-